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Notice of Allowability

Application No.

10/633,929

Examiner

Chuc D. Tran

Applicant(s)

DURHAM ET AL.

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/13/05.
2. ☒ The allowed claim(s) is/are 1-17 and 19-48.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 10/13/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Shih-Chao Chen 10/28/05
SHIH-CHAO CHEN
PRIMARY EXAMINER

DETAILED ACTION

In response to Request for Continued Examination submitted on October 13, 2005. In virtue of this RCE, claim 18 has been cancelled, claims 42-48 were newly added; thus, claims 1-17 and 19-48 are now remaining active in the instant application.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Michael W. Taylor on 11/28/05.

The application has been amended as follows:

Claim 26, line 2, "claim 18" change to - - claim 17 - -;

Claim 27, line 2, "claim 18" change to - - claim 17 - -;

Claim 29, line 2, "claim 18" change to - - claim 17 - -;

Claim 30, line 2, "claim 18" change to - - claim 17 - -.

Allowable Subject Matter

2. Claims 1-17 and 19-48 are allowed.

3. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 17; the references of prior art of record fails to teach or suggest the combination of the limitations as set forth in the claim: a medial feed portion, and a pair of legs extending outwardly therefrom, a passive load and a switch connected thereto for selectively

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coupling the load to the medial feed portion so that the dipole antenna element selectively functions as an absorber for absorbing received signals while the passive load dissipates energy associated therewith, the passive load comprising at least one of a printed resistive element and a discrete resistor.

Regarding claims 2-16 and 19-31 are allowable for the reason given above because of their dependency status from the claims 1 and 17.

Regarding claim 32, the references of prior art of record fails to teach or suggest the combination of the limitations as set forth in the claim: a method of forming an array of dipole antenna elements on the substrate comprising a medial feed portion, and a pair of legs extending outwardly therefrom, and a passive load and a switch connected thereto for selectively coupling the passive load to the medial feed portion so that the dipole antenna element selectively functions as an absorber for absorbing received signals while the passive load dissipates energy associated therewith.

Regarding claims 33-41 are allowable for the reason given above because of their dependency status from the claim 32.

Regarding claim 42, the references of prior art of record fails to teach or suggest the combination of the limitations as set forth in the claim: a medial feed portion, and a pair of legs extending outwardly therefrom, a passive load connected to the medial feed portion so that the dipole antenna element selectively functions as an absorber for absorbing received signals while the passive load dissipates energy associated therewith; and adjacent legs of adjacent dipole antenna elements including respective spaced apart end portions having predetermined shapes

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and relative positioning to provide increased capacitive coupling between the adjacent dipole antenna elements.

Regarding claims 43-48 are allowable for the reason given above because of their dependency status from the claim 42.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of relevant prior art

Prior art Cohen (USP. 6,476,766) disclose fractal antenna ground counterpoise, ground planes and loading elements.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D. Tran whose telephone number is (571) 272-1829. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC
November 28, 2005

Shih-Chao Chen
SHIH-CHAO CHEN
PRIMARY EXAMINER

11/28/05